#### PATENT COOPERATION TREATY

#### **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FP05-0235-01	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/JP2006/312487	International filing date (day/month/year) 22 June 2006 (22.06.2006)	Priority date (day/month/year) 23 June 2005 (23.06.2005)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant Eisai R & D Management Co., Ltd.				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).				
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	This report contains indications	relating to the following items:			
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority			

Date of issuance of this report 24 December 2007 (24.12.2007)

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

#### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION FP05-0235-01 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2006/312487 22.06.2006 23.06.2005 International Patent Classification (IPC) or both national classification and IPC Applicant Eisai R & D Management Co., Ltd. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Date of completion of this opinion Authorized officer Facsimile No. Telephone No.

International application No.

Вох	No. I	Basis of this opinion	
1.	With	regard to the language, this opinion has been established on the basis of:	
	$\boxtimes$	the international application in the language in which it was filed	
		the translation of the international application into	, which is the language of a
		translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).	
2.		regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application antion, this opinion has been established on the basis of:	and necessary to the claimed
	a.	type of material	
		a sequence listing	
		table(s) related to the sequence listing	
	b.	format of material	
		on paper	
		in electronic form	
	c.	time of filing/furnishing	
		contained in the international application as filed	
		filed together with the international application in electronic form	
		furnished subsequently to this Authority for the purposes of search	
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relationshed, the required statements that the information in the subsequent or additional copies is identicated or does not go beyond the application as filed, as appropriate, were furnished.	ting thereto has been filed or al to that in the application as
4.	Addi	tional comments:	

International application No.

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:
the entire international application
because:
the said international application, or the said claims Nos. 13 relate to the following subject matter which does not require an international search (specify):
Claim 13 relates to methods for treatment of the human body by surgery or therapy, and thus relates to a subject matter which the International Searching Authority is not required to search.
the description, claims or drawings (indicate particular elements below) or said claims Nos.  are so unclear that no meaningful opinion could be formed (specify):
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):
no international search report has been established for said claims Nos. 13  a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions,
and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).
a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
See Supplemental Box for further details.

International application No.
PCT/JP2006/312487

Box			ale 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-12, 14	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-12, 14	NO
	Industrial applicability (IA)	Claims	1-12, 14	YES
		Claims		NO

2. Citations and explanations:

(Documents)

- 1. WO 2002/32872 A (Eisai Co., Ltd.), 25 April 2002
- 2. WO 2004/080462 A1 (Eisai Co., Ltd.), 23 September 2004
- 3. JP 2001-131071 A (Meiji Seika Kaisha, Ltd.), 15 May 2001
- 4. JP 2005-501074 A (Smithkline Beecham PLC.), 13 January 2005
- 5. JP 1-022874 A (E.R. Squibb & Sons, Inc.), 25 January 1989

(Explanation)

The inventions of claims 1-12 and 14 are not disclosed in any of the documents cited in the ISR and therefore appear to possess novelty, but do not appear to involve an inventive step over documents 1-5 cited in the ISR.

Documents 1 and 2 describe a compound containing 4-(3-chloro-4-(cyclopropylaminocarbonyl)aminophenoxy)-7-methoxy-6-quinolinecarboxamide (document 1: example 368, document 2: compound 1) or a pharmacologically tolerated salt thereof as a compound having an antiangiogenic effect and an c-Kit kinase inhibiting effect and effective for treating tumors and other ailments, and also describe that methanesulphonic acid and other addition sales of organic sulphonate are given as pharmacologically tolerated salts.

(Continued to Separate Sheet)

International application No.

Box No. VI	Certain documents cit	ed				
1. Certain pul	blished documents (Rule 43	3 <i>bis</i> .1 and 70	0.10)			
	Application No. Patent No.		Publication date (day/month/year)	Filing date (day/month/ye		Priority date (valid claim) (day/month/year)
WO	2005/063713	A1	14.07.2005	22.12.20	004	25.12.2003
[E	x]					
2. Non-writte	n disclosures (Rule 43bis.1	and 70.9)				
	Kind of non-written discle	osure	Date of non-written d	isclosure		written disclosure non-written disclosure
			(day/month/yec		(day	y/month/year)

International application No.

Supplemental Box
In case the space in any of the preceding boxes is not sufficient.  Continuation of: $\forall$
Attempting to improve the solubility of pharmaceuticals and biological absorbance by chemical and physical methods such as forming soluble salts or amorphizing using a weakly basic compound as an acid salt is commonly done, and freeze drying is a commonly known and widely implemented method for amorphizing (see documents 3-5 if needed).  In light of this, it would be easy for a person skilled in the art to form an appropriate acid addition salt or amorphize using freeze drying in order to improve the solubility or the biological absorbance of the 4-(3-chloro-4-(cyclopropylaminocarbonyl)aminophenoxy)-7-methoxy-6-quinolinecarboxamide described in documents 1 or 2. Therefore, no particular effect is found with this matter.